

Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

**PURCHASE ORDER** PO038920

Tel (613) 632-5200

Supplier:

KLX001-VU

KLX Inc.

88289 Expedite Way Chicago, IL 33172 USA Phone: 305-925-2600 Fax: 305-507-7191

Attention:

Pilon, Lucie

Ship To:

1270 Aberdeen Street

Hawkesbury

K6A 1K7 Canada Phone: 613-632-5200 PO No:

PO038920

PO Date:

1/31/18

Due Date:

2/5/18

**Purchase Order** Revision:

**Revision Date:** 

**Ship-To Contact:** 

Lavoie, ChantalPhone:

clavoie@dartaero.com

Via:

Fedex Economy

Pymt Terms:

COD Collect

Freight Terms:

**Special Comments:** 

Items													
Part	Supplier Part No.	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price				
MS21919WDG19	, dit ito	Clamp	Firmed	2/5/18	20 Ea	0 Ea							
MS24523-27		Switch	Firmed	2/5/18	2 Ea	0 Ea	2 Ea	\$15.03/Ea					
MS3373-A1	:	Strip	Firmed	2/5/18	6 Eg		6 Ea	\$3.08/Ea	\$18.48				
AN310C5		Nut	Firmed	2/5/18	40 Ea	0 Ea	40 Ea	\$1,19/Ea	\$47.60				
MS21920-22		Clamp	Firmed	2/5/18	50 Ea		50 Ea	\$11.1766/Ea	\$558.83				
MS21075L5		Nut Plate	Firmed	2/5/18	100 Ea	0 Ea	100 Ea	\$1.7269/Ea	\$172.69				
MS24693-S277		Screw	Firmed	2/5/18	200 Ea	0 Ea	200 Ea	\$0.12/Ea	\$24.00				
MS27039-4-08		Screw	Firmed	2/5/18	100 pcs	0 pcs	100 pcs	\$0.43/pcs	\$43.00				
AN8-23A		receive ea Bolt	Firmed	2/5/18	10 Ea	. 0 Ea	10 Ea	\$1.28/Ea	\$12.80				
		receive ea		•	·		(	: Grand Total:	\$938.46				
	MS24523-27 MS3373-A1 AN310C5 MS21920-22 MS21075L5 MS24693-S277 MS27039-4-08	Part Part No MS21919WDG19 MS24523-27 MS3373-A1 AN310C5 MS21920-22 MS21075L5 MS24693-S277 MS27039-4-08	Part         Part No         Description           MS21919WDG19         Clamp           MS24523-27         Switch           MS3373-A1         Strip           AN310C5         Nut           MS21920-22         Clamp receive ea           MS21075L5         Nut Plate receive ea           MS24693-S277         Screw           MS27039-4-08         Screw receive ea           AN8-23A         Bolt	Part         Part No         Description         Status           MS21919WDG19         Clamp         Firmed           MS24523-27         Switch         Firmed           MS3373-A1         Strip         Firmed           AN310C5         Nut         Firmed           MS21920-22         Clamp receive ea         Firmed           MS21075L5         Nut Plate receive ea         Firmed           MS24693-S277         Screw         Firmed           MS27039-4-08         Screw receive ea         Firmed           AN8-23A         Bolt         Firmed	Part         Supplier Part No         Description         Status         Date           MS21919WDG19         Clamp         Firmed         2/5/18           MS24523-27         Switch         Firmed         2/5/18           MS3373-A1         Strip         Firmed         2/5/18           AN310C5         Nut         Firmed         2/5/18           MS21920-22         Clamp receive ea         Firmed         2/5/18           MS21075L5         Nut Plate receive ea         Firmed         2/5/18           MS24693-S277         Screw         Firmed         2/5/18           MS27039-4-08         Screw receive ea         Firmed         2/5/18           AN8-23A         Bolt         Firmed         2/5/18	Part         Supplier Part No         Description         Status         Date         Quantity           MS21919WDG19         Clamp         Firmed         2/5/18         20 Ea           MS24523-27         Switch         Firmed         2/5/18         2 Ea           MS3373-A1         Strip         Firmed         2/5/18         6 Ea           AN310C5         Nut         Firmed         2/5/18         40 Ea           MS21920-22         Clamp receive ea         Firmed         2/5/18         50 Ea           MS21075L5         Nut Plate receive ea         Firmed         2/5/18         100 Ea           MS24693-S277         Screw         Firmed         2/5/18         200 Ea           MS27039-4-08         Screw receive ea         Firmed         2/5/18         100 pcs           AN8-23A         Bolt         Firmed         2/5/18         10 Ea	Part         Supplier Part No         Description         Status         Date         Quantity         Quantity           MS21919WDG19         Clamp         Firmed         2/5/18         20 Ea         0 Ea           MS24523-27         Switch         Firmed         2/5/18         2 Ea         0 Ea           MS3373-A1         Strip         Firmed         2/5/18         6 Ea         0 Ea           AN310C5         Nut         Firmed         2/5/18         40 Ea         0 Ea           MS21920-22         Clamp receive ea         Firmed         2/5/18         50 Ea         0 Ea           MS21075L5         Nut Plate receive ea         Firmed         2/5/18         100 Ea         0 Ea           MS24693-S277         Screw         Firmed         2/5/18         200 Ea         0 Ea           MS27039-4-08         Screw receive ea         Firmed         2/5/18         100 pcs         0 pcs           AN8-23A         Bolt         Firmed         2/5/18         10 Ea         0 Ea	Name	Part   Part   Part No   Description   Status   Date   Quantity   Quantity   Balance   Price (USD)				

**Order Notes** 

### **Order Notes**

**Procurement Quality Clauses** 

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/31/18 2:42 PM dart.lavoie.chantal



INVOICE NUMBER

**JHFZXS** 

PAGE 3 OF 4

SOLD TO:09

. 1

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

ORDER NO	D. 8	DATE	SHIP VIA		1	TERMS		SHIPPING TERMS		
PO03		01/31/18	FEDX INTL P	1 COLL		NET 30		FOB-MIAMI		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	I	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT		
		authorized ultima either in their o into other items, U.S. government o U.S. law and regu  Ultimate Destinat DART AEROSPACE LT 1270 ABERDEEN ST HAWKESBURY ON K6A 1K7 CANADA	riginal form without fir as otherwilations.	or after st obtainse author	being	ing incorporate approval :	***CONT	'INUED***		
		MATERIAL TO BE R	ETURNED MUST H	HAVE PRIOR A	UTHO	DRIZATION BY K	LX INC.			

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 N W 15TH TERRACE, MIAMI, FL 33172

MATERIAL CERTIFICATION: KLX INC. ("KLX AEROSPACE SOLUTIONS") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. KLX AEROSPACE SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPUED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PRATICULAR PURPOSE. THE LIABILITY OF KLX AEROSPACE SOLUTIONS IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT WARRANTIES OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL OF ANY ITEM WHICH IS REJECTED CONSTITUTE SATISFACTION OF ALL LIABILITY KLX AEROSPACE SOLUTIONS MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL KLX AEROSPACE SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENT DAMAGES. FURTHER, KLX AEROSPACE SOLUTIONS MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

**PACKING SLIP** 

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS PACKING SLIP, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:

http://www.KLXaerospace.com/conditions-sale/

Vice President of Quality



INVOICE NUMBER
JHFTVE

PAGE 2 OF 2

SOLD TO:

002409

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7 SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

HIST-REPRINT

P0038920 01/31/18 FEDX INTL ECON COLL				SHIPPING TERMS		
	4	NET 30		FOE	B-WICHITA	
ITEM QUANTITY PART NUMBER AND DESCRIPTION PRICE	UNIT	BACK ORDER	SHIPPED		AMOUNT	
Ultimate Destination DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON K6A 1K7 CANADA  *** SHIPPED 1 CTN *** # 1=CTN 2.00 Lb / 0.91 Kg 582264095489 FREIGHT ACCT# 15179324-0 TEL# 613-632-3336 DIMENSIONS: 6X6X4  awil B88Y05 SHIPPED ON 01/31/18  form #16230.000311			SUBTOTAL HANDLING DISC/ALL INCM FRT FREIGHT TOTAL	:	0.00 0.00 0.00	

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10900 E 26TH ST N., WICHITA, KS 67226



INVOICE NUMBER
JHFTVE

PAGE 1 OF 2

SOLD TO:

002409

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7 SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

HIST-REPRINT

POO38920  O1/31/18  FEDX INTL ECON COLL  NET 30  FOB-WICHITA  PRICE  UNIT BACK ORDER  SHIPPED  AMOUNT  MS21920-22 CLAMP ECCN: 9A991.d Country Origin: USA TARIFF: 7307.29.0090 SCHEDULE B: 7307.29.0090 MFR: VOSS INDUSTRIES INC CTRL#: 2014I13757 LOT#: 174797/A LOT QTY: 7 COUNTRY OF ORIGIN: USA These items are controlled by the U.S. Government and authorized for export only to of ultimate destination for use by or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining appropul. S. government or as otherwise authorized by U.S. law and regulations.	ORDER NO.	IO. DATE	SHIP VIA		TE	RMS		SHIPPING TERMS		
MS21920-22 CLAMP ECCN:9A991.d Country Origin: USA TARIFF: 7307.29.0090 SCHEDULE B: 7307.29.0000 MFR: VOSS INDUSTRIES INC CTRL#: 2014113757 LOT #: 174797/A LOT QTY: 7 COUNTRY OF ORIGIN: USA These items are controlled by the U.S. Government and authorized for export only to of ultimate destination for use by or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by	PO038920	38920 01/31/18	FEDX INTL ECO	N COLL	N	IET 30		FOB-WICHITA		
CLAMP ECCN: 9A991.d Country Origin: USA TARIFF: 7307.29.0090 SCHEDULE B: 7307.29.0000 MFR: VOSS INDUSTRIES INC CTRL# : 2014I13757 LOT# : 174797/A LOT QTY: 7 COUNTRY OF ORIGIN: USA These items are controlled by the U.S. Government and authorized for export only to of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by			. , , , , , , , , , , , , , , , , , , ,	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT		
***CONTINUED***  MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.		These items are con and authorized for of ultimate destina or end-user(s) here to any other country may not be rest to any other into other items, w. U.S. government or U.S. law and regula	O .0000 S INC  USA trolled by the texport only to tion for use by in identified. old, transferred y or to any perionsignee or eiginal form or a ithout first ob as otherwise autions.	J.S. Government of country the country the ultimated, or otherwhold-user(s), and the country is a similar to be a similar to by the country of the country o	ent of e co ise an t ncor	disposed of he porated from the	ONTINUED**		78.24	

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10900 E 26TH ST N., WICHITA, KS 67226



INVOICE NUMBER

PAGE 2 OF 2

SOLD TO:

002409

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7 SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

HIST-REPRINT

ORDER NO	) <b>.</b>		DATE	SHIP VIA		TE	RMS	· · · · · · · · · · · · · · · · · · ·	SHIP	PING TERMS
P003	3920		01/31/18	FEDX INTL ECO	N COLL	N	IET 30		FOE	3-WICHITA
ITEM NO.	QUANTITY ORDERED	PART NUM	BER AND DESCRIPTION	<b>.</b>	PRICE UNI		BACK ORDER	SHIPPED		AMOUNT
awil	*** SHIPP! # 1=CTN FREIGHT AG TEL# 613-G DIMENSIONS B88Y05	DART 1270 HAWKE ON K6A 1 CANAD  ED 1 CT 2.00 CCT# 15 632-333	N *** Lb / 0.91 P 179324-0 6 4 SHIPPED C	Rg 582264095489					:	0.00 0.00
			MATERIAL TO BE	RETURNED MUST H	AVE PRIOR AUTH	10R	IZATION BY KL	X INC.		

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10900 E 26TH ST N., WICHITA, KS 67226



INVOICE NUMBER

PAGE 1 OF 2

50kg 19:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7 SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

ORDER NO			DATE		SHIP VIA					TERMS		SHIF	PPING TERMS	
PO038			J	01/31/18	FEDX	TNITT.	FCON	COLL	-	NET 30		1	B-WICHIT	'A
ITEM	QUANTITY		DADT MINUSED AT	ND DESCRIPTION	FEDA	T111T1	PRICE		UNIT	<del></del>	SHIPPE		AMOUNT	
NO.	ORDERED		PART NUMBER A	ND DESCRIPTION			FAICE		0,	BACK CHEEN	0111171			
5		7	SCHEDULI Descript ECCN : 92	22 7307.29.0 E B: 7307. tion CLAMP A991.d SS INDUSTR	29.000	r	11	1766	EA	0		7	7	8.24
			LOT#: 1° LOT QTY Country These i	of Origin tems are c	USA ontrol									
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			HAWKESB	URY					!	1	´   ( )			
			ON										1	
			K6A 1K7										-	
			CANADA								***	CONTINU	F77 * * *	
								5105 -	1-16	DITATION EX			υ · · · ·	
			MAT	ERIAL TO BE R	ETURNE	MUST	HAVE P	HIOR A	JTHO	HIZATION BY	ALX INC.			

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10900 E 26TH ST N., WICHITA, KS 67226

MATERIAL CERTIFICATION: KLX INC. ("KLX AEROSPACE SOLUTIONS") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. KLX AEROSPACE SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF KLX AEROSPACE SOLUTIONS IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL. OF ANY ITEM WHICH IS REJECTED CONSTITUTE SATISFACTION OF ALL LIABILITY KLX AEROSPACE SOLUTIONS MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL KLX AEROSPACE SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENT DAMAGES. FURTHER, KLX AEROSPACE SOLUTIONS MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

**PACKING SLIP** 

Vice President of Quality

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS PACKING SLIP, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT: http://www.KLXaerospace.com/conditions-sale/





INVOICE NUMBER

**JHFTVE** 

PAGE 2 OF 2

**50th** 103

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

OADER NO.   DATE   SHIP VIA   TEMS   SHIPPIGE TEMS   PO 3899   D   31/18   PEDX INTL ECON COLL   NET 30   FOB-WICHITA											
TEM   OUDSTREE   OUU	ORDER NO		DATE		SHIP VIA				TERMS		
INVOICE#: JHFTVE  INVOICE#: B88Y05  B88Y05  WHETOTAL 78.24  HINDLING 0.00  DISC/ALL: 0.00  INCM PRT: 0.00  TOTAL 78.24  TOTAL 78.24  U.S. CURRENCY	P0038	3920		01/31/18	FEDX	INTL	ECON COI	T	NET 30		FOB-WICHITA
# 1=CTN 2.00 Lb / 0.91 kg 582264095489 FREIGHT ACCT# 15179324-0 TEL# 613-632-3336  DIMENSIONS: 6X6X4  INVOICE#: B88Y05  ## 1=CTN 2.00 Lb / 0.91 kg 582264095489  FREIGHT ACCT# 15179324-0  TEL# 613-632-3336  DIMENSIONS: 6X6X4  SUBTOTAL 78.24  HANDEING: 0.00 DISC/ALL: NCM FRT: FREIGHT 0.00 INCM FRT: 78.24US U.S. CURRENCY		QUANTITY ORDERED	PART NUMBER A	ND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
HANDLING 0.00 DISC/ALL: 0.00 ENCM FRT: 0.00 FREIGHT 0.00 TOTAL 78.24US U.S. CURRENCY	INVOI	# 1=CTN FREIGHT TEL# 613 DIMENSION	2.00 ACCT# 151 -632-3336 NS: 6X6X4	Lb / 0.		\$8226	4095489				
HANDLING 0.00 DISC/ALL: 0.00 ENCM FRT: 0.00 FREIGHT 0.00 TOTAL 78.24US U.S. CURRENCY											
DISC/ALL: 0.00 INCM FRT: 0.00 FREIGHT 0.00 TOTAL: 78.24US U.S. CURRENCY	ORDER	# :	B88Y05							M00000 200000	
INCM FRT: 0.00 FREIGHT 0.00 TOTAL : 78.24US										31 60000000	307
FREIGHT 0.00 TOTAL 78.24US U.S. CURRENCY											
TOTAL : 78.24US. U.S. CURRENCY										40000 200000	.0000000
U.S. CURRENCY										1 10000 2000007	.0000001
											92' 4
	tre	B88Y05	SHIPPED	ON 01/31/1	8						***
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.						MUST	HAVE PRIOR	2 ALITHO	RIZATION BY KI	X INC.	

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10900 E 26TH ST N., WICHITA, KS 67226

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AFTER RECEIPT BY THE CUSTOMER. AFTER RECEIPT BY THE CUSTOMER.

**PACKING SLIP** 

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http://www.KLXaerospace.com/conditions-sale/



# AS9100 AND ISO 9001 ACCREDITED

2168 WEST 25TH STREET • CLEVELAND, OHIO 44113-4172 PHONE: 216-771-7655 • FAX 216-771-2887

FACKING SLIP AND CERTIFICATION OF COMPLIANCE

DATE:

Sep 10, 2014

PACKING SLIP NO: 432679

JOB NUMBER:

174797/A

Sold to: B/E AEROSPACE CONSUMABLES MGMT ATTN ACCOUNTS PAYABLE PO BOX 025263 IMAIM FL 33102-5263 Ship to: B/E AEROSPACE CONSUMABLES MGMT ATTN RECEIVING 9835 NW 14TH STREET MIAMI 33172

Cust No.

Customer P.O. No.

Ship Date

Ship Via

F.O.B.

51310700

OXTA15

9/10/14

RPS

VOSS PL

Our Order NO. 1747977A

Order Date

Sales Rep

Terms

5/09/14

R7

NET 30 DAYS

Oty. Oty. Ordered

500

Shipped 500

Fart/

Description MS21920-22

REV-D

UM EA

BAND CLAMP

Voss Internal #: 0454743

MS21920-22 REV D

ITEM #1

FEDEX GROUND COLLECT

ACCT #0331-0149-0

2 CTNS @ 28# EA

a CTNS @ 250 PCS EA

All parts comply to specialty metal DFAR requirements All parts manufactured in USA

We hereby certify that parts and/or materials included in the above shipment have been manufactured and/or processed in compliance with all applicable purchase order and drawing specifications. In addition, data of chemical, physical and mechanical properties, where required, are on file for

Michael Schleckman, Quality Manager E-mail: mschleckman@vossind.com

BAR CODE LABEL NEEDED \*\*

ITAR/EAR EXPORT CONTROLS MAY APPLY PER FEDERAL REGULATIONS (22 CFR 120-130)

PLEASE DO NOT ASSUME ANY DEBITS UNTIL VOSS CREDIT IS AUTHORIZED. WE HEREBY CERTIFY THAT THESE GOODS PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE SECTIONS 6, 7 AND 12 OF THE FAIR LABOR STANDARDS

ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPT. OF LABOR ISSUED UNDER SECTION 14 THEREOF.

**EEO CLAUSE from EXECUTIVE ORDER 11246** 

EQUAL EMPLOYMENT OPPORTUNITY: The Equal Employment Opportunity clause in Section 202, Paragraphs 1 through 7 of Executive Order 11246, as amended, relative to equal employment opportunity and the implementing Rules and Regulations of the Office of Federal Contract Compliance and the affirmative action clauses set forth in 41C.F.R. 60-250.4 and 41C.F.R. 60-741.4 relating to disabled veterans, veterans of the Vietnam era and handicapped individuals are incorporated herein by specific reference.

			Chemical / Ph	ysical Report		
	Raw Material, Spec	ifications and Specia	il Process(es), Fun	ctional Testing	Page	1 of 1
	1. Date November 30,	2. Customer Name		3. Customer Purchase C	order Number	4. Job # (SWO)
	2015 5. Quantity Shipped	6. Customer Part No	umber	7. Voss Part Number		8. Mfg Date
	500	MS21920-22		MS21920-22		N/A
em lo.	Material or Process Name 10. Specification Number		11. Special Process Supplier Code	12. Vendor	13. SWO / HPO	14. Certificate Number
1	BAND	AMS 5518	N/A	STAINLES STEEL	174797A	947303
2	TONGUE			UNITED	734115	942611U
3	TRUNNION BODY	AMS 5901	N/A	STAINLESS SALES	734504	942673Q
4	TRUNNION CAP	AMS 5901	N/A	STAINLESS SALES	733864	944929B
5	NUT	AMS 5737	N/A	ASC INDUSTRIES	174797A	940025D
,	T-BOLT			CENTRAL WIRE	734425 733372	939760A
.	WRAPPER			STAINLESS SALES	733115	944929A
-						
-						
-	,				NAMES AND ADDRESS OF THE PARTY	
-	15. Special Processe	S				
	HEAT TREAT T-BOLT	VS901012	N/A	HTG	733372	945472
_	FPI TRUNNION	ASTM E1417	N/A	VOSS IND	734504	734504
	FPI T-BOLT	ASTM E1417	N/A	VOSS IND.	733372	733372
-						
_						



DWRD

Cert Number 57842-4 Test Reference 8571 7/3/2014

VOSS INDUSTRIES, INC. 2168 W. 25TH STREET CLEVELAND, OH 44113-4172

Issued from TOT Stainless Steel Inc. Michigan \$300 Mineleas Mile Road Starling Heights, MI 48314

Customer	Packing List 578	7303 (6/21/2014)    { '842-1 (7/3/2014)			The Street Mary Mary Mary Mary
STAINLESS COIL 301 (8.0) 1/2 HARD 0.0250" Norn x 0.625" Part 10CAAC02806258P1A	有一种 <b>等</b> 的可能。	Product Information: Heat 7520169	Tag	Pcs 94 10	LBS 812
Part 10CAAC02508258P1A	<b>一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个</b>	hamical Composition 8	C C	N 53	Mo. 38
0.066 0.64 <sup>3</sup>	U.VAI - 1 V.V	<u>U32   U.T-U</u>	1/./0	0.17	U.45 V
THE REPORT OF THE PARTY OF THE	Tonalla (Lista	Physical Tests	Yield (L)	- Elemente	
37-	165,540 -	<u>/</u>	129,840 -	38.85	<u>J</u>
AMS 5618 REV L					
MADE IN USA DFARS COMPLIANT /				·	
MADE IN USA DFARS COMPLIANT ROHS COMPLIANT			No. of the last of	·	·
MADE IN USA DFARS COMPLIANT ROHS COMPLIANT					
MADE IN USA DFARS COMPLIANT ROHS COMPLIANT	· ·•		ACCEPTED		
MADE IN USA DFARS COMPLIANT ROHS COMPLIANT			_		
MADE IN USA DFARS COMPLIANT ROHS COMPLIANT	} v:	JBS PO/LŌT TRA	ACE 947303	-	
MADE IN USA DFARS COMPLIANT ROHS COMPLIANT	} v:		_	-	
	. v.	JBS PO/LŌT TRA	ACE 947303		

Peggy S. Cottins (Agent) - Quality Mariager

1

AK
Steel

# **AK Steel Corporation**

age	1	

			AK	•		Metallurgical Test Report Rockport Works 6500 North US 231 Rockport, IN 47635 U.S.A.											
	Æ		Ste	el								oed No. ru No.	760595 760595	-			
CUSTONER	TCT STAINLE A COMPANY ( 6300 NINETEE STERLING HG	of tad M In Mile R FTS, Mil 44	ETALS IN		P STEE	STAINLESS NINETEEN RLING HGT	MILE S, MI 483:			MILL OR 253500 - 08 PART NO .0321 NO	93 L ENGL	PROCES MI-222- ISH UNITS 000 X COH	PK -:PROD		MI-	YERS ORI -222-PK UNITS	HER NO.
	JFT ID	PIECE	HE			NT LIFT I	D	NET WE	GHT		OUTSI	DE PROCES	SOR ID	· · · · · ·			
	922-01BB	1	75	26169 -	713922	01B		19,710 LB	S. 8,949	KG.	489019						
TO	TAL LIFTS	TOTAL						TOTAL	NET WE	GHT	l						
	1	. 1						19,719 LB	S. 8.940	KG.							
	L-Ladie Analysi	s of Heat	P-1	roduct !	nalysis of	Parent Coil		MICAL					i			····	
	TD	C.	MN	P	S	SI	CR	NI	MO	N	Cn						
L	7520169	.089	1.622	427	.0032	443	17.78	6.17	25	.0660	.64	<del>                                     </del>					
;	SHIPPING DAT	E: 06/06/20	112		REMARK	S NOTN	TENTION	AT ADDET	TONS OF	VEDCIDA						Li	

IF MERCURY OR MERCURY COMPOUNDS WERE MADE OR USED THROUGHOUT THE PROCESSING AND TESTING OF THIS MATERIAL MATERIAL FREE OF RADIOACTIVE ISOTOPES

### PRODUCT DESCRIPTION

CR SET TYPE 301 STAINLESS \$28 FINISE SLIT EDGE \* ASTM A 240-11 (UNS 830100) \* ASTM A 480-112 EX PARA 25.1.1.3 COIL WILL BE TAGG ED ON OUTSIDE ONLY \* ASME SA-240 SECTION II PART & 2011 ADDENDA \* ASME SA-480 SECTION II PART & 2011 ADDENDA \* AMS 5901C ALL TEC HMICAL REQUIREMENTS HAVE BEEN MET UNLESS AGREED TO OR NOTED OTHERWISE. \* RB 92 HAX \* .75% MAX COPPER

PARENT LIPT	POS	DIR	COND	% ELONG	ELONG	ELONG	TENSILE	Y.S.	ROCKWELL	I DO OFFICE	
.ID		(L, T, D)			METHOD	GAUGE LENGTH	STRENGTH (KSI)	I ====================================	HARDNESS Tell	ROCKWELL HARDNESS Front	
713922-01B	T	T	A.S.T.M	623	MEASURED	2 Inch					
PARENT LIFT	200				NAME OF THE OWNER, OF THE OWNER, OF THE OWNER,	Z (284)	111.7	47.5	BW 88	BW 88	
I AMENI LUFT	POS	DAR	COND		1						
110		(L, T, D)		130 1T							
713922-61B	T		A.S.T.M	Pass	1						

THE CHEMICAL ANALYSIS AND PHYSICAL OR MOCKANCAL TESTS REPORTED ABOVE ARE CORRECT AS CONTAINED IN THE RECORDS OF THE CORPORATION.

ALL TESTING IS DONE IN ACCORDANCE WITH A STANDARDS URLIES OTHERWISE NOTICE)

AK Steel Corporation

MM7QQ/10049 S/99 Program Vandon Chicago L.11 THE CERTIFIED TEST REPORT HAS BEEN DELIVERED TO A CONSIGNER OF MATERIAL RUNCHASED FROM AK Small Corporation. TO AVOID THE POSSIBILITY OF ITS MERUE! ON DELIVERY OF THE REPORT TO A THRUD MARTY IT MALEY BE RECERTISHED BY AND UNDER THE NAME OF SUCH CONSIGNER.

R. A. WEST

QUALITY MANAGER

DATE 05/05/2012 TIME 11:05 PM



### METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Date: 9/25/2013 Page: 1

Steel: 301

Pinish: TR 1/2 Hard

Your Order:

Customer: 0018 001

01023153

MAS Order:

AN 0582628 01

Correction: ASTM A262/10 A:180Rend-Of

#### PRODUCT DESCRIPTION:

STLS STL COIL. 1/2 HARD UNS 30100
ASTM A240/13a,A480/13,A666/10; ASMM SA240/10,SA480/10,SA666/10
ANS 5518L X MRX; MXL-S-5059D AND3-1/2HARD(X CRMM MEAS)
HD QQS766D-1/2HARD(X MAG PERM)
PMT 301 1/2HD

#### RENARKS:

Hat'l is Free of Morcury Contamination. No weld repairs. EN 10204:2004 3.1; RoHS 1 & 2 Compliant Material is Free of Radioactive Contamination MAS Steel Making Process: WAF, AOD, & Cost. Casting Product Mfg.by a Quality Ngt.Sys. in Conf. w/ISO 9001 \*Melted & Hanufactured in the USA; Mat'l is DFARS Compliant Material is tempored.

Product	<b>I</b> D	Supplier ID	Thickness	Width	Weight		Length	Mark	Pieces	COMMODITY CODE	
04J6M5 I	в •	04J6M5	.0250	36.0000	25,800	COLF	8382.0	11	1		

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical analysis per ASTM A751/08

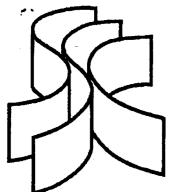
HEAT	Supplier#	CM	C 1	•	CR %	CU \$	<b>387.</b> \$	160 A	N t	HI 4	2 4	g	•		
J6N5	J6MS Lab Check:	US	.09	•	17.1285 J 17.1430	.3775 J .3800	1.0080 / 1.0060	.2400 j .2490	.0348	7.0655; 7.0810	.0305√ .0290	>	0010/ 0001	·	
			SI !	<b>}</b>											
			.45	520 <i>/</i>				-							
	Lab Check:	:	. 42	210											

#### MECHANICAL PROPERTIES

Product Id	Supplier Id	) d	UTS KSI	.2% TS KSI	NLONG %-2"	Teil Herd	D Fer F.H.	Bard-4 R45M	
0436NS B	0456115	. F T	166.00	134.86	23.55	39.00	1.92	41.50	REVIEWED/APPROVED BY UPH QC
			•	•	·	_			SPECE: HMS 55/8C
									BY: PL DATE 10-31-13 TOTAL PAGES 1
NAS hereby certif	fies that the analy	sis on t	this certific	cation is co	orrect. Ba	sed upon	the results	and the accuracy	Technical 2

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.
ERIC HESS 9/27/2013



# STAINLESS SALES CORPORATION

3301 South Justine St Chicago, Illinois 60608 Phone 800.621.0872 Phone 773.247.9060 Fax 773.247.7236

ISO/TS 16949

### **Certificate of Analysis**

12/16/13 MATERIAL ACCEPTED Customer PO No: 942673-15 VOSS PO/LOT TRACE 942673 Q Customer Part No: 10CAAA0500625DR3 To VOSS INDUSTRIES DATE \_\_\_\_\_11/18/13 2168 WEST 25TH STREET SSC Order No: 0221963 CLEVELAND, OH 44113 INSPECTED BY Description 301 ANN .050 X 0.6250 X COIL Of

Chemical Properties (%)

Material

C	Mn	P	S	Si	Co	Сь	Nb
.0900	1,0400	.0300	.0005	.4800			
Cr	Ni	Cu	Мо	Ti	Al	N	
17.1000	7.0600	.4000	.2800			.0400	

### **Physical Properties**

Heat Number	Tensile (psi)	Yield (psi)	% Elongation	% Red Area	Hardness	Grain	R-Val	N-Val
981818	121000	47900	64.000	0.000	RB86	0.000	0.000	0.000

Remark: AMS 5901-92 REV. C/VS 902007 - REV D.

BEND TEST 180 1 X T DFARS COMPLIANT

Alfredo Rosario

Quality Assurance Manager

We hereby assert that the above data is a true reproduction of that furnished by our source of supply as contained in the records of the corporation.

Revision #3 Revision Date 02/10 Document #: CF01

Tag #46870

#### NOTICE OF SHIPMENT/ PACKING LIST





BHIPPER NO. PRODUCT CÓDE MILL OFFIER NUMBER DATE SHIPPED CUST. CODE ACCEPTING MILL |10/24/13 844546 | VANDERGRIFT. PA 403335 13020102120000 30-103-608 12/06/13 28443 BOYT, CONTRACT INVOICE 1110 VANDERGRIFT 657436 SOLD TO PRIME BHIP TO STAINLESS SALES CORPORATION DSO STAINLESS SALES CORP DSO 3301 S. JUSTINE STREET 521 2310 W 58TH STREET CHICAGO IL 60636 88989 II CHICAGO GRADE AND SPECIFICATIONS CARRIER - SUNTECK TRANSPORTATION AN "ATI 301" STAINLESS STEEL SHEET C R COILS ANNEALED 28 FIN MILL EDGE (ASME-SA-480 ED 2013) (ASTM-A-480-13) (ASTM-A-262-13 PRACTICE E) (ASTM-A-240-134) (AMS 5901C) HEAT # COIL # TEST # GROSS TARE NET THEO TAG #/ CD SKID # ITEM PCS DIMENSIONS W/G/L 19515 287293 8812710 19515 981818 11123N114 1 49.8125/.050/2278. C CUST IDENTITY 3018050X48MWSCRG 19515 19515 1 COIL DIST: EMAIL INVOICE AND S/N TO INVOICINGGSTAINLESSSALES.COM TYPE HEAT/TEST (WT %) .04 17.10 7.06 HEAT 981818 U 1.04 -030 -0005 .48 .09 ΜT MI MI MI MI MI TEST LOCATION CORROSION GRAIN YIELD TENSILE % ELONG IN 2" % R/A HARDNESS BEND A 262 PR E SIZE HARDENABILITY ITEM TEST NO NR 86.HRBW T PASS PASS 001 8812710 86 HRBW T 47900. 121000 TC TC TC TC TEST LOCATION TC \* Y.S. BY 0.2% OFFSET METHOD NR = DATA NOT REQUIRED GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY STAINLESS SAUES CORP. DIN EN 10204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL. MATERIAL MELTED AND ROLLED IN THE UNITED STATES AND COMPLIES WITH DFARS, SECTION 252.225-7008.

PAGE 01 - CONTINUED ON PAGE 02

Las fittines d'information—odourité de on preduction de département chargé des actistes. Pour ebbanir des se verdines téléphoners au semétro auteunt 224-228-89 de entreinent la production de vapaura, poussières, couse de maindais putinonnière. Pour plus de res

12/06/13 11:21:04

The above in a true copy of date on No. The material and best results conform in the outer confers to the outer confers the outer conf

Starten Well Starten Control Control

CONSIGNEE—Please Mate—This consignment was turned over to carrier in first class condition, being correctly located, at which time our responsibility for loss or dunings in shipment cased. For your protection please exembs abilipment as it environ. If any shortage of durings is discovered, have a fish description needs by transportation search on world? Subtree Sandro. Reteriol Enfecty Date Charge for this product have been experied to your Prochesing Compriment. For an additional copy phone 724-228-000. Cultificity Proceedings that entire fames, duct, or additions may cause lung demand. See Materia Safety Cate Street for further information.

#### NOTICE OF SHIPMENT/ PACKING LIST



#### **CERTIFICATE OF TEST**

OUET, ORDER NO. & DATE 28443	10/24/13 844		аніррея но. РА 403335	13020102120000	MILL ORDER NUMBER 30-103-608	0ATE SHIPPED 12/06/13
STAINLESS SALES CORF		PRIME BEC. DSO DSO 521		1110 VANDERGRESHIP TO SALES CORPORATE THE STREET IL		637436

CARRIER - SUNTECK TRANSPORTATION AN GRADE "ATI 301" STAINLESS STEEL SHEET C R COILS ANNEALED 28 FIN MILL EDGE

THIS DIN EN 10204:2005 - 3.1 CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE. FICTITIOUS. OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATT AL HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001. AS9100, NADCAP, AND ISO/IEC 17025. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ATI AL QUALITY MANUAL REVISION 22 DATED 7/10/2013.

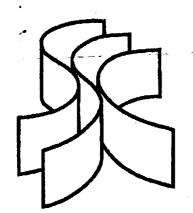
ATT ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES: C. S BY COMBUSTION/INFRARED N. O. H BY INERT FUSION/THERMAL CONDUCTIVITY MN, P, SI, CR, NI, MO, CU, CB, CO, V BY WDXRF B BY DES AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES PB, BI, AG BY GFAA

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS: MI = ATI-ALLEGHENY LUDLUM: 950 TENTH STREET: MIDLAND, PA 15059 TC = ATI-ALLEGHENY LUDLUM: 1300 PACIFIC AVENUE: NATRONA HEIGHTS. PA 15065

> REGISTER AT WWW.ALCEXTRA.COM <<<<<<<

PAGE 02 - FINAL PAGE.

12/06/13 11:21:04



To VOSS INDUSTRIES

2168 WEST 25TH STRE

# STAINLESS SALES CORPORATION

3301 South Justine St Chicago, Illinois 60608 Phone 800.621.0872 Phone 773.247.9060 Fax 773.247.7236

ISO/TS 16949

# **Certificate of Analysis**

03

MATERIAL ACCEPTED

VOSS PO/LOT TRACE 944919 B

12/11/13

CLEVELAND, OH 441 3 NSPECTED

Date: 12/05/13 Customer PO No: 944929-2 / Customer Part No: 10CAAA0401930DR3

SSC Order No: 0221959

Description Of Material

301 ANN .040 X 1.9300 X COIL

### Chemical Properties (%)

C	Mn	P	s	Si	Со	Сь	Nb
.0900	1,2300	.0270	.0010	.5400			
Cr	Ni	Cu	Мо	Ti	Al	N	
17.2400 5	7.0600	.3000	.2300			,0400	

### **Physical Properties**

17.2400

Hest Number	Tensile (psi)	Yieki (psi)	% Elongation	% Red Area	Hardness	Grain	R-Val	N-Val
980136	120000	47400	62.000	0.000	RB81 /	0.000	0.000	0.000

Remark: AMS 5901-92 REV. C/VS 902007 REV D

BEND TEST 180 1XT #3 SLIT EDGE.

**DFARS COMPLIANT** 

7.0600

Alfredo Rosario

Quality Assurance Manager

We hereby assert that the above data is a true reproduction of that furnished by our source of supply as contained in the records of the corporation.

Revision #3 Revision Date 02/10 Document #; CF01

Tag #45578

#### NOTICE OF SHIPMENT/ PACKING LIST



4 5578 -00 AMELLIN

39/24/12 844546 VANDERGRIFT, PA. | 555172 | 1362819292000 3592929292 GOV'T. CONTRACT "The VANDERORIFT" PRIME SEC. SHIP TO STAINLESS SALES CORP DSD STAINLESS SALES CORPORATION 3321 S. JUSTINE STREET 521 2310 W 58TH STREET CHICAGO CHICAGO IL 60436 CARRIER - GROSS, ROHADO, INC. GRADE AND SPECIFICATIONS "ATT 301" STAINLESS STEEL SHEET C R COILS ANNEALED 20 FIN MILL EDGE (AMS 5901C)) (ASME-SA-240 ED 2010) (ASTM-A-246-12) LITEM PCS DIMENSIONS W/G/L HEAT # COIL # TEST # GROSS TARE NET THEO TAG H/ CD SKID 781B 1 48.812/.0421/2839. 980136 09272N037 8799394 18979 18970 897193 C CUST IDENTITY 30180401X46MESPCHM i cort. 18979 18970 DIST: EMAIL INVOICE AND SYN TO INVOICINGOSTAINLESSSALES.COM TYPE HEAT/TEST WEAT 980136 \_ TEST LOCATION YIELD TENSILE % ELONG GRAIN PSI \* PSI IN 2" % R/A HARDNESS BEND THE TEST NO SIZE HARDENABILITY 4319 8798584 NR 69.HR30TW T PASS NR т 47488. 120008 62. WTDERH. PS/ TEST LECATION \* Y.S. BY 8.2% OFFSET METHOD MR = DATA NOT REQUIRED GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY STAINLESS SALES CORP DIR EN 19204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL WATERIAL MELTED AND ROLLED IN THE UNITED STATES AND COMPLIES WITH DEARS JAHUARY 2010 EDITION, . SECTION 252.225-7008. . FAST 01 - CONTINUED ON PAGE 62 REPRINT 11/02/12 10:33:55

#### NOTICE OF SHIPMENT/ **PACKING LIST**

IL 60609



VANDERORIFT, PA.

**CERTIFICATE OF TEST** 

13626162120000 3626621621

STAINLESS SALES CORF 3301 S. JUSTINE STREET

CHICAGO

FRIME SEC DS0 DSO 521

SHIP TO STAINLESS SALES CORPORATION 2310 W 58TH STREET CHICAGO

558112

GOVT. CONTRACT

IL 68635

1116 VANDERGRIFT

GRADE AND SPECIFICATIONS CARRIER - GROSS, RONALD, INC. "ATI 301" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN MILL EDGE (AMS 5901C) (ASME-SA-240 ED 2010) (ASTM-A-246-12)

THIS DIM EN 10204:2005 - 3.1 CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROMIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATI AL HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE 190-9001, ASP100, NADCAP, AND ISO/IEC 17025. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ATT AL QUALITY MANUAL REVISION 20 DATED 02/24/2012.

ATT ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES: C., S BY COMEUSTION/INFRARED

A, G, H BY INERT FUSION/THERMAL CONDUCTIVITY Da. P. SI. CR. MI. HO. CU. CB. CO. V BY WDXRF

B RY DES WE AND IT (>=0.10%) BY WDXRF, OTHERWISE BY DES PB. BI. AS BY CFAA

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS: ATT-ALLEGHENY LUDLUM; 950 TENTH STREET; MIDLAND, PA 15059 TC - ATI-ALLEGHENY LUDLUM: 1300 PACIFIC AVENUE: NATRONA HEIGHTS, PA 15065

> <<<<<< FOR ACCESS TO CHLINE CERTIFICATES OF TEST >>>>>>> <<<<<<< REGISTER AT WWW.ALCEXTRA.COM

PAGE 02 - FINAL PAGE.

REPRINT

ASC INDUS		SALES ORDER NO. 298859-002
1227 CÓRPORATE DRIVE WEST PHONI ARLINGTÓN, TEXAS 78008 FAX	: (817) 640-1300 : (817) 649-2685	
s 0 908700-00 L VOSS IND. D 2168 W. 25TH	S H VOSS IND. 1 2168 W. 25TH	
O CLEVELAND, OH 4411	T CLEVELAND, OH 0 44113	
F.O.B./INCOTERMS: ARLINGTO	N YOUR DRIDER NO 94002	_
TERMS: 1/2% 10, Net 30 Days Unless Otherwise Noted	TOUR ONDER NO 7 2 0 0 2.	DICE DATE
1/2% 10 DAYS NET 30   heart Country Shipped	Par Startha	
		MG:
02 3640 3640 Description NUT, SEI	MS20500-1032 F LOCKING, HEXAGON, CRES 260277 (3640) COO: U.S.	E
MFG. C		
Description NUT, SE	MS20500-1032 JF LOCKING, HEXAGON, CRES 260277 (10000) COO: U.S	B
MFG. C CHEM &	OF C PHYS	
Gross / Net Wt	No Ctres  *CERTIFICATE OF CONFORMANCE*	
in accepting delivery of this material, extrawrisiges awareness.  Please note that an ASC return treated authorization number in transmitting is mandatory for all returns. Return of any supreham	ance with applicable specification requirements and certification indicating conforma- cts and hardey limbs express or implied womenties to liability for the sext of registers of such limitations of liability.  Let be leaved for all recurre, Let	ros is on the exhibit to experimention, ASC or refunding the value of the measured. Buyer,
rancty days from date of shipment.	ING LIST / CERTIFICATION (GERA)	BUTANCE Methoder LD NEWELL) la sectionically signed

TRACK #: S57458

	ASC	INDUSTRIES
		ASC INTERNATIONAL, INC.

**ASC INDUSTRIES** 1225 CORPORATE DRIVE WEST ARUNGTON, TEXAS 76006

SALES ORDER NO. 298859-002

1227 CORPORATE DRIVE WEST ARLINGTON, TEXAS 75006

PHONE: (817) 640-1300 FAX: (817) 649-2585

908700-00 VOSS IND. 2168 W. 25TH VOSS IND. 2168 W. 25TH

CLEVELAND, OH 0 44113

CLEVELAND, OH 44113

F.O.B./INCOTERMS:

ARLINGTON 940025 YOUR ORDER NO TERMS: 1/2% 10, Net 30 Days Unless Otherwise Noted INVOICE DATE ./2% 10 DAYS NET 30 Part Number UM Item | Quantity Due | Quantity Shipped 02 MS20500-1032 Е 3640 3640 Description NUT, SELF LOCKING, HEXAGON, CRES. PENN ENGINEERING Lot#: 260277 (3640) COO: U.S. MFG. C OF C CHEM & PHYS F. 10000 MS20500-1032 03 10000 NUT, SELF LOCKING, HEXAGON, CRES Description PENN ENGINEERING Lot#: 260277 (10000) COO: U.S MFG. OF C 6-21-13 mo CHEM & PHYS No Ctns

TRACK #: S57458

\*CERTIFICATE OF CONFORMANCE\*

(GERALD NEWELL)

DATE: 06/14/13

**PACKING LIST / CERTIFICATION** 



Corporate Office 5190 Old Easton Road Danboro, PA 18916 USA Tel: 215-766-8853 Fac: 215-765-0143 www.pemnet.com

# TEST CERTIFICATION

Customer: ASC Industries

1225 Corporate Dr. W.

Arlington, TX 76006

Cert Date: June 10, 2013

Lot Number: 260277

Order Number: 1375471

PO Number: 187520

Inspection Lot Size: 33,000

Spiral Part Number: MS20500-1032 Rev F

Quantity Shipped: 18,640

Part Name: Nut, Self Locking, Hex, 1200° F

Procurement Specification: NASM7873 March 2000

Material Specification: AMS 5737

Type: **A286** 

Material Producer: CARTECH

Heat No. 566616

Cert S/N: 000847752

Threads conform to AS8879 Rev D Inspected per FED-STD-H28/20 System 22

Magnetic Permeability acceptable per ASTM A342 Method 3

Sample FPI per ASTM E 1417 Ref Hadd-Co Inspection Lab Certification No. 18584

Sliver Plate per AMS 2410 Reference F.M. Callahan & Son, Inc. FMC Job No. 271211

Locking Torque Test per NASM7873 Reference Lab Report DQL - 22471

Tensile Test per NASM1312-8 Reference Lab Report DQL - 22471

The raw material that was used to manufacture these parts was melted in the USA or a qualifying country and complies with applicable sections of DFARS 252.225.

This test certification shall not be reproduced except in full without written approval of PennEngineering. This certification shall not be used by the customer to claim product endorsement by any agency of the U.S.

PennEngineering certifies that the product shipped on the above purchase order were manufactured, inspected and tested in compliance with all applicable prints and specifications. All supporting documentation is on file at PennEngineering.

Registered ISO 9001:2008, AS9100, QSLM for class 2 and class 3 threaded fasteners - Cage Code 46384

Made in USA.

Cay M. Com **Clayton Souders** 

**Quality Manager** 

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

ET SERIAL# 000847752

der Technology Corporation aut Bern Street, Restling, Pa. 19801 Tul: (610) 208-2000 (805) 338-4592

10/29/12 CUSTOMER/ESTELLER/CLIENT

THE RECORD OF SAME FILLING COMES OF BRANCH SAX, MAY THE TABLE OF THE PARTY OF THE P HE MALES AND STHER TECHNICAL BATA MERGESTERS THE BESTELLS OF ANALYSES AND TESTS MADE REPORTED TO THE CAMPAINTS DIVINE MARKED IN THE PROPERTY OF THE PROPERTY O

THIS TOTAL TOTAL BOT HE REPRODUCED, EXCEPT IN FULL, NITROUT THE WALTTEN CONSENT OF CANTON TELEVISION CONTROL TO THE CONSENT SHILER/VEREALDER/VENDRUEPAGE 1 OF

Pennengineering Fastening Technologies OA DEPT P. O. BOX 1000 DANBORO

PA 18916

ALN

CHSTONER DILDER NO./BESTELL-NR./N= DE COMMANDE	CARPENTER NO. / VERUS-IN. / Nº DE RÉFERENCE INTERNE	DATE/DATION/DATE	NEIGHT/GENECHT/POINS
930385DN LINE 11	W67698	10/29/12	546.000

HEAT WOMER / SCHMELZE-NR. / Nº DE COULEE :

566616

PRODUCT DESCRIPTION: A286 ANNHALED COLD FINISH SEAN FREE C HDG CL K2 HVY

SPECIFICATION: PERMENG 3-30-7286 REV A (10/29/10) EXCPT LTR (07/05/11) PENDING ANS 2241 REV R (07/ /07)
AMS 5737 REAFFIGUED REV P (07/ /12) CAPABLE OF PERMENG QSP 6.5 REV K (10/01/11) EXCPT LTR (11/08/11) APPROVED

0.282000 IN. ( 7.16 MM) RD WIRE

PRIMARY HEAT CHEMISTRY (WTV): (TEST METHOD IS SHOWN IN PARENTHESIS)

MN (XRF)

P (OES) S (COM)

13.77 (XRF)

24.24 (XRF)

MO (XRF)

0.07 (XRF)

0.13 (OES)

2.10 (ORS)

V (XRF) 0.35 ✓

0.007/

MATERIAL DOES NOT EMIT IONIZING RADIATION IN EXCESS OF NATURAL RADIATION LEVELS.

PROVISIONS OF 10 CFR PART 21 AND 10 CFR PART 50 - APPENDIX B APPLY.

THIS MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL REVISION 30, DATED 09/28/11.

CARPENTER TECHNOLOGY COMPLIES TO THE EUROPEAN DIRECTIVE (EU) 2002/95/EC.

MATERIAL SUPPLIED MEETS THE TECHNICAL REQUIREMENTS OF THE SPECIFICATION(S) NOTED ON THIS ORDER.

(T) RANSVERSE (L) ORGITUDINAL VIELD STRENGTH, (0.20 t) RSI (MPA) TENSILE STRENGTH, KSI (MPA) ELONGATION IN 1.12", t

62.5 ( 431) 89.5 ( 617)

W 1037 1032

CONTINUED ON NEXT PAGE

damer pridad cy 196 Ame. Crys our Sir des Ja. Messe. Novembr pr o prins la plays deed in 1844 ool le

**ABNAHMEPRUEFZEUGNIS** CERTIFICATE OF TESTS CERTIFICAT DE CONTROLE CERT SERIALS 000847752 ECONOMISM OF THE PETERS OF THE Corporator Technology Corporation 101 West Bern Street, Reading, Pa. 19801 RE MALES AND OTHER TECHNICAL DATA REPRESENT THE BESINTS OF AMALYSES AND TESTS MADE DEVELOPED TO THE CASPOSITED COMES MADES. LOT. MALESTIME DATA RECORDS CAN BE VENCES OF ATERIAL IS MANUFACTURED FREE FROM NEXICARY, MADIUM, ALPMA AND GAMON SOURCE CONTANGINATION. Tut: (610) 294-3000 (800) 331-4592 THIS CONTROL TO THE REPORTACED, EXCEPT IN FULL, HITHOUT THE WRITTEN CONSENT 10/29/12 CUNTOMER/RESTRUME/CLIENT STITE / VERLUER / VENDER PAGE Printengineering Pastening Pechnologies DEPT O. BOX 1000 PA 18916 ALN CUSTOMER ONDER NO./BESTELL-NR./N- DE CONNAIDE CHAPERTER NO. /NEWS-NR. /N- DE REFERENCE THTEWE DATE/DATUN/DATE VEI CHIT / REKLICHIL/POLOS 930385DN LINE 11 W67698 10/29/12 546.000 HEAT WOMERS / SCHEMELZE-NOL / Nº DE COULEE : 566616 CAPABILITY 899 C), 02 取 718 C): 16 版 COMBINATION STRESS RUPTURE TEST TEMP 1200 F 649 C) STRESS, KSI (MPA) 65.0 (448) ELONGATION 47.2 HOURS 71.6 AFTER MINIMUM TIME UNDER SPECIFIED STRESS, THE STRESS RUPTURE TEST WAS OVERLOADED IN INCREMENTS AS FOLLOWS:

TOTAL ROURS

51
70.0 483
75.0 517 (T) RANGUERSH (L) CNGITUDINAL VIKID STRENGTH, (0.20 %) KSI (MPA) TENSILE STRENGTH, KSI (MPA) HICHGATION OF ARRA, HARDNESS, HEW -CHEMISTRY CHECK (WT%) AT SIZE 9.000 IN. X 9.000 IN. 0.007 NATERIAL HAS BEEN MELITED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DYARS REQUIREMENTS 252,225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.
THIS OF DEER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11. CARPENTER'S CUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE RECUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE, CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED INTHIS CERTIFICATS OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & COSTOMER, SHERRY L KREIDER ADMINISTRATOR - QUALITY

M320500-1032



### HADD-CO INSPECTION LAB

2420 Ameler Street, Torrance, CA 90505

Toll Free: (888) 339-8472 Phone: (310) 325-7820 Fax: (310) 325-9656

www.haddco.com Emst: NDT@haddco.com

NO. 18584

Sold To:

PENN ENGINEERING 5190 OLD EASTON ROAD DANBORO, PA 18916

AND THE PARTY OF T

P.O. Number:

833377

Job/Lat #

260277

Completion Date:

5/2A/13

# CERTIFICATION

YTITHAUS	PART NUMBER	DEBCRIPTION	
32	M\$20600-1032	FPI PER ASTME1417/E1417M-11E1 NA0028-3 MAT: CRES TYPE 1 METHOD A LEVEL 3	
		NO REJECTS	

This is to certify that 100% of the parts under subject purchase order have been inspected by Fluorescent Penetrant Inspection in accordance with all applicable and/or purchase order requirements.

inspector:

CHRISTINA M. GARCIA/ LEVEL II

NOTE: Altering of this certification renders it void.

# F.M. Callahan & Son, Inc.

22 Sharon Street, Malden, MA 02148

T: (781) 324-5101

F: (781) 324-1674

E: inquiry@fmcallahan.com



Chemical Processing

QF 15A-100, Rev 1 Tom Upton, Prod Mgr, 04/26/2000

### PENN ENGINEERING & MFG CORP

### **GENTLEMEN:**

This is to certify that F.M. Callahan and Son, inc. has processed the parts listed below in conformance with the following specification:

Silver plate .0002" per AMS 2410Kand FIN-16P, Rev D.

Purchase Order:

833378

FMC Job Number:

271211

Date Shipped:

6/6/2013

Quantity

**Part Number** 

33,000 PC

MS20500-1032 \*OP135 10-32 Hex collar lock Nut WO#260277 154 LBS 4 BINS

Results of the quality assurance procedures followed are on file with F.M. Callahan and Son, Inc. and are available for your inspection on request. Testing and inspections are performed per F.M. Callahan Son, inc's Quality Manual Rev 24. As stated above this certificate is certifying to the process only not to the testing. Testing is not performed per the specification for the following specifications: QQ-P-35C, MIL-F-495, MIL-G-45204B, ASTM B633, and AMS 2424.

**Very Truly Yours** 

Reynolds, Quality Manager

F.M. Callehan and Son Inc.

Penn Engineering®
5190 Old Easton Highway, Danboro, PA 18916
Phone - (215) 766-8853, Fax - (215) 788-7353, Website - www.pemmet.com

### **TEST REPORT**

Group No	Part Num MS20500-103		W/O Number 260277	,		Rema	rks;	. <u>.</u> .	Test L	og No. Date : Req. E		22471 6/7/2013 O. Kriste
									Ì	Job Lo	_	O, MINO
				Purp	088:	M820500 I	Requirm	ents:	REV G		-	
<del></del>			FASTE	NER and PA	NEL	BPECIFIC	ATION	8			- <del> </del>	
	1	astener		<del></del>				anei				
Group	Hardness	Platin	g Thickness	Material	He	irdness	Thick	ne88	Mtg. I	tole Dis	. Punc	h/Die/Drilled
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L	L	<u> </u>			ALUD!	MENT	L		l		_ <u></u>	<u> 1 l</u>
			,	TEST EC	2UIP			Tons	ue Wr			
Group	Installation Press Type	Punch	Anvii	Mach#/ Push-out Bushing Dis.		Axial Ten Support	Dia	1,0	).# / R	ruge		
1						*T6014-11:		ļ			÷	
					_	T5014-113		ļ		·	- :	
<u> </u>						,180010		<u> </u>				
				TEST RESU	LT 8	UMMARY				<del></del>		
Group			ial Tensile Strength			•	•				i	
		ibs			HVLo		HI/Lo			НИО	<b>,</b> .	HILO
1		47	770 / 4390								·	<del></del>
								-			<del></del> -	
NAS Spec.			2460 lbs	,				-				<u></u>
	<u> </u>				L			1				
Test Method			12,MASM7873,	FT8505 Before 1	netalle	tion?:			After Ir	etallation	17	
Threads Gag		·				sample Moun	nt No.	<del></del>				
Photograph I Details:	PASS - Perform	ence mee	ts specified requ	Jirements								
	= 2800 lbs/min			·	<del></del> :-			····	<del></del>			
	Tast Perfor	med Rv	M. Gontek			Tes	t Check	ed By	. 1,	\		, OC
		/2013		6		Dat			10/2	OB	<u></u>	<del>,</del>
					A 45			4- 40- 4	lane te	-lad		
	Thi	s report s	hall not be repro	oduced except in	full. T	ne resulta rel	ECONT	to the		KEU D. 4	480004	ECN# 04-221

PennEngineering•



Earparate Office 5190 Old Easton Hoad Danboro, PA 18918 US/ Tel: 215-786-0143 Water Daminet Light

# TORQUE TEST CERTIFICATION

WORK ORDER: PART NUMBER: LOT SIZE:	280277 M820500-1032 THREAD: .190-32 UN. 32,325
PROCUREMENT SPECIFICATION: (ATTRIBUTE SAMPLING PLAN)	NASM7873 REVISION: 1 Number of Samples Required: 7
MAXIMUM ON (I) / OFF (R): MINIMUM BREAKAWAY (B):	18 INCH POUNDS 2.0 INCH POUNDS
DATE TESTED: 6/7/2013	DQL#: 22471 TERT PERMIT: Poss (Poss or Fo

TEST	F	RET CYCL	E	SE	SEVENTH CYCLE			FIFTEENTH CYCLE		
SAMPLE		13	R		В	R		В	R	
1	11.7	14.1	14.1	6.9	6.8	16.0	11,2	9.8	16.1	
2	11.3	12.5	12.5	4.4	5.9	7.7	4.5	5.2	13.6	
3	9.1	11.9	11.9	4.3	5.7	6.7	3.5	4.6	4.6	
4	10.4	11.7	11.7	4.8	8.5	7.9	4.2	5.3	7.5	
5	12.9	16.0	16.0	4.6	6.1	7.3	3.8	8.2	6.2	
6	10.4	12.9	12.8	5.6	7.3	7.9	3.7	5.1	6.9	
7	11.9	12.3	12.3	5.0	7,8	7.8	3.1	4.7	6,0	
8										
9										
10										
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23										
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27										

| = Installation Torque. B = Breakaway Torque. R = Removal Torque.

Data transcribed from original records maintained on file at PennEngineering

# Penn Engineering & Manufacturing Corp. 5190 Old Easton Road, PO Box 1000 Dariboro, PA 18916

# Axial Tensile Test Report (lbs)

Part No.: Test Log No.: M820500-1032 DQL22471

Technician: **Test Date:** 

M. Goritek 06/07/2013

Work Order No.: Material/Hardness: Material Thk.:

N/A N/A N/A

260277

Mounting Hole Dia.:

.1905"-.1945"

Bushing Dia.:

Sample No.	Ultimate lbf	Failure Mode
1	4770	A
2	4590	A
2	4400.	A
<b>J</b>	4390	<b>A</b> '
<del>*</del> = = = = = = = = = = = = = = = = = = =	4480	A
5 g	4420	A
0 7	4470	Α
Average	4500	
SD	135.4	
Minimum	4390	

UTM # 9744

Minimum

Maximum

Failure Mode: A = Test boilt thread tensile failure.

4770

Signed By:

Technician

PERTH, ON ERIN, ON DUNIE, AR LANCASTER, SC 613-287-3752 FAX 613-287-5617 518-833-9632 FAX 518-833-2213 870-382-2980 FAX 870-382-9885 803-283-3353 FAX 803-283-6303



FÖND DU LAC, WI UNION, IL PERRIS, CA

920-926-0609 FAX 920-926-0652 615-923-2131 FAX 816-923-2126 951-657-2106 FAX 951-943-8061

THE LEADING MANUFACTURER OF STAINLESS STEEL AND NICKEL ALLOY WIRE PRODUCTS EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL: sales@centralwire.com

CENTRAL WIRE 6509 OLSON ROAD TEL: 815-923-2131

UNION, IL 60180-9730 FAX: 818-923-2126

CERTIFICATE OF CONFORMANCE

SOLD TO

VOSS INDUSTRIES, INC. 2168 WEST 25TH STREET

OH 44113

Customer

VOSS INDUSTRIES, INC. 2168 WEST 25TH STREET SHIP

CLEVELAND

OH 44113

USA

TO

USA

CLEVELAND

CUSTOMER'S PO NO. TYPE OF CERT

**CUSTOMER** 131265

ORDER NO. 1178474

**WORK ORDER** 4139965

**DATE SHIPPED** 11/30/12

SPECIFICATIONS:

VS902001 REV. E

939760

	ITEM DESCRIPTION		
DESCRIP	TION	SPEC. CLASS	HEAT
Cold Heading A2868F SKIN PASSED Seam Free	Melt mill Latrobe	·	D7334
.1830 Coils Std. Copper-Moly	Country of origin USA	OTY SHIP	044

			СИЕ	VIICAL ANALY	GIE .		
<u> </u>	.034 4	MN .17	Si /	.011	.001 /	CR 14.21/	NI 25.10
	MO /	.05 /	.06 /	AL .15 /	π 2.18 `	FE Balance	.0069
	. <sub>26</sub> /	BI < .00001	PB < .0001				

AS SHIPPED PR			/ECHANICAL	NG97					
TENSILE 107.000 KSI MIN	TENSILE 108.000 KSI MAX	GRAIN SIZE 7.000/ ASTM		-	V()5.	PO/LOT	TS ACE. 9	976 0 A	-
AFTER HEAT TH	EAT PROPERTIES:	1325F	16 HOURS,	AIR C	PAT:			6/12_	- 1
TENSILE 172.000 / KSI	YIELD 144.000 KSI	ELONGATION 21.000		j	INSF 3°	, <u>F</u> .			- F
				h.v.	********		1288	THE PARTY OF THE P	- ;

\* WIRE IS DFARS 252,225-7009 COMPLIANT \* ITEM: 11AA182184GT

DAVID MENGE - QUALITY CONTROL SUPERVISOR

The material as shipped is free from mercury contamination. I certify the chemical analysis and physical and mechanical test results reported above are correct as contained in the records of the company.

Very truly yours,

AUTHORIZED SIGNATURE

FormScriat Form: #07:Y\_CERT.P2, 08/19/11

PERTH, ON ERIN, ON DUMAS, AR LANCASTER, SC 613-267-3752 FAX 613-267-5617 619-833-9632 FAX 618-833-2213 870-382-2980 FAX 670-382-6986 803-263-3363 FAX 803-283-6303



FOND DU LAC, WI UNION, IL PERRIS, CA

920-926-0609 FAX 920-926-0652 815-923-2131 FAX 815-923-2128 951-857-2106 FAX 951-943-6061

THE LEADING MANUFACTURER OF STAINLESS STEEL AND NICKEL ALLOY WIRE PRODUCTS EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL: <u>sales@centralwire.com</u>

CENTRAL WIRE 6509 OLSON ROAD TEL: 815-923-2131

UNION, IL 60180-9730 FAX: 815-923-2126

# **CERTIFICATE OF CONFORMANCE**

VOSS INDUSTRIES, INC. 2168 WEST 25TH STREET

SOLD TO

USA

CLEVELAND

OH 44113

SHIP

TO

VOSS INDUSTRIES, INC. 2168 WEST 25TH STREET CLEVELAND

OH 44113

USA

CUSTOMER'S PO NO. TYPE OF CERT CUSTOMER ORDER NO. WORK ORDER DATE SHIPPED 939760 Customer 131265 1178474 1 4139965 11/30/12 SPECIFICATIONS:

VS902001 REV. E

	TEM DESCRIPTION		
DESCR	PTION	SPEC. CLASS	HEAT
Cold Heading A286SF SKIN PASSED Seam Free	Melt mill Latrobe		D7334
.1830 Coils Std. Copper-Moly	Country of origin USA	<b>QТҮ SHIP</b> 1707	044

		CHE	U (CAL ANA E	SIS .		
.034	MN .17	SI .16	P .011	.001	CR 14.21	NI 25.10
MO 1.33	CU .06	.06	AL .15	71 2.18 /	FE Balance	B . 0069
.26	84 < .00001	PB < .0001				

		1	ileo <b>hani</b> oa	iyi obandir		
AS SHIPPED PR	OPERTIES:				-	
TENSILE 107.000 KSI MIN	TENSILE 108.000 / KSI MAX	GRAIN SIZE 7.000 / ASTM				
AFTER HEAT TR	REAT PROPERTIES:	1325F	16 HOURS,	AIR COOL		 · · · · · · · · · · · · · · · · · · ·
TENSILE   172.000   KSI	YIELD 144.000/ KSI	ELONGATION 21.000				

\* WIRE IS DFARS 252.225-7009 COMPLIANT \*

ITEM: 11AA182184GT

DAVID MENGE - QUALITY CONTROL SUPERVISOR

The material as shipped is free from mercury contamination. I certify the chemical analysis and physical and mechanical test results reported above are correct as contained in the records of the company.

Very truly yours,

AUTHORIZED SIGNATURE

FormSprint Form: #07:T\_CERT,P2, 08/19/11



## CERTIFICATE OF TEST

2626 S. Ligonier St. Latrobe, PA 15650

Production Order Number	Wgt. Shipped	Sales Order No.	Heat No.
10406592	8688	20176319-3	D7334
Customer Order No./Req. No.		Delivery Number	
2010125		30435932	
Bill To: 502026		Ship To: 407182	•
CENTRAL WIRE TRCHALLOY UNION 6509 OLSON ROAD UNION IL 60180		CENTRAL WIRE FOND DU LAC 1795 SOUTH HICKORY STREET FOND DU LAC WI 54937	

(TO SIZE) .343 RND COIL LS-A286 VAR HR D.3.PRS.010.8 REV B + SAD 19565, D.3.PRS.008.8 REV F EXCEPT 300# MINIMUM COIL WEIGHT & .008" MAX DEFECT DEPTH, 10 CFR CH. I (1-1-08 EDITION) PART 21 - REPORTING OF DEFECTS & NONCOMPLIANCE INGOT #1

Chemical Analysis Wt%:

Cu ЬИ Mo Co Cr В Mn S C .si .06 2.18 .011 .0069 14.21 .26 25,10 1.33 .06 .001 .034

Ph Bi Al Fe .15 BAL <.00001 <.0001

Bismuth (Bi) and Lead (Pb) were tested at Laboratory Testing Inc., Report number TLS001-12-03-11728-1, TL8001-12-03-11927-1 & TL8001-12-03-12304-1.

### As Received:

Ultimate Tensile Strength per ASTM E8-11 & ASTM A370-11: 101.8 KSI This test was performed at Westmoreland Mechanical Testing & Research, Inc., Report No. 2-62390.

Grain Siza per ASTN E-112-10: 9

Capability Heat Treatment: 1650°F (2 hrs) WQ + 1325°F (16 hrs) AC

Room Temperature Tensile Test per ASTM E8-11 & ASTM A370-11:

Longitudinal center at .343" Rnd.

ID

UTS (ksi)

0.2TYS(ksi)

El (%in4d)

HRC R.A. (%)

50

37 24 116.3 165.4

M6 This test was performed at Westmoreland Mechanical Testing & Research, Inc., Report No. 2-63221.

Combination Stress Rupture per ASTM E292-09:

Temp (°F) ID

Stress (ksi)

El (%in4d)

Rupture Life (hrs)

Rupture Location

Smooth

1200

65

44.3

69.8

'Upload after 48 hrs/5 KSI/every 8-10 hrs, Final stress 80 KSI. This test was performed at Westmoreland Mechanical Testing & Research, Inc., Report No. 2-63221.

Grain Size per ASTM E-112-10: 10

Testing methods for charactal analysis tested at Letrobe Specialty Steel are as follows: C.S.H.O.S. H = CombustionSI, Ma, W. Cr V, Mi, Me, Ce, Cu, Al> 1%, Tl> .1%, Cb, Ta, Fe & Sn = X-Rey, Balance of elements analyzed on OEOther testing methods not listed above here been conducted per certified material appealication(s).

Latrobe Specialty Steel Company is registered to Quality Management System Standards: ISO 9001 and AS9100. Need certs? Our air melt certs are available online at http://www.latrobesteel.com

We can'tly this amen's to have been presultentance, inspected, and basted; and fears the results to contour to all desertings of the processor of the deserting of the processor. The continues or includes the terminal of the december may be particularly and fearing state the processor. This continues or registerial to be reproduced except to full, without written approval citations deep the processor accounts of the continues of the continues of the processor of the full, without written approval citations depocially steel Company.

saula

05/21/2012

Date

Inspection Department

Peula M Platt - Sr Metallurgical Coordinator



### CERTIFICATE OF TEST

2626 S. Ligonier St. Latrobe, PA 15650

Production Order Number	Wgt, Shipped	Sales Order No.	Heat No.
10406592	8688	20176319-3	D7334
Customer Order No./Reg. No.		Delivery Number	
2010125		30435932	
Bill To: 502026		Ship To: 407182	
CENTRAL WIRE TECHALLOY UNION 650\$ OLSON ROAD UNION IL 60180		CENTRAL WIRE FOND DU LA 1795 SOUTH HICKORY STRE FOND DU LAC WI 54937	
ONTON ID BUISU	•		

#### MATERIAL DESCRIPTION:

(TO SIZE) 343 RND COIL LS-A286 VAR HR D.3.PRS.010,3 REV B + SAD 19565, D.3.PRS.009,8 REV F EXCEPT 300# MINIMUM COIL WEIGHT & .008" MAX DEFECT DEPTH, 10 CFR CH. I (1-1-08 EDITION) PART 21 - REPORTING OF DEFECTS & NONCOMPLIANCE INGOT #1

Capability Heat Treatment: 1800°F (1 hr) WQ + 1325°F (16 hrs) AC

Room Temperature Tensile Test per ASTM H8-11 & ASTM A370-11:

Longitudinal center at .343" Rnd.

ID (kai)

0.2TYS(ksi)

El (%in4d)

R.A. (%) HRC

M9

160.3

106.2

26

52 36

This test was performed at Westmoreland Mechanical Testing & Research, Inc., Report No. 2-63220.

Combination Stress Rupture per ASTM E292-09:

ID Temp (°F)

Stress (ksi)

Bl (4in4d)

Rupture Life (hrs) ^^

Rupture Location

70.1

Smooth

20.0 1200 70 ^^Opload after 48 hrs./ 5 KSI/ every 8-10 hrs.; final stress 85 KSI This test was performed at Westmoreland Mechanical Testing & Research, Inc., Report No. 2-63220.

Country of origin (Manufacturing & Melting): USA

During the manufacturing process, this material has not come in direct contact with Mercury or any of its compounds. The material has not come in contact with any radioactive sources, Cobalt 60, Radium or Alpha-Source nor devices employing a single boundary of containment. Material is also weld free.

Testing methods for chemical analysis tested at Lairobe Specialty Steel are as follows: C.S.N.O & H = CombustianSI, Min, W, Cr V, M, Mo, Co, Cu, Al-1%, Th. 1%, Cb, Ys, Fe & Bn = X-Rey, Belance of elements enalyzed on OE.Cliner testing methods not listed above have been conducted per certified resterial specification(s).

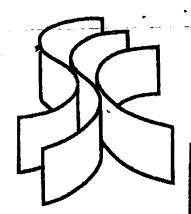
Latrobe Specialty Steel Company is registered to Quality Management System Standards: ISO 9001 and AS9100. Need certs? Our air melt certs are available anline at http://www.latrobesteel.com

We scriffy this mainful to have been executarizations. Impe of seld tested; and found the results to

inspection Department

05/21/2012

Paula M Platt - Sr Metallurgical Coordinator



To VOSS INDUSTRIES

2168 WEST 25TH ST

# STAINLESS SALES CORPORATION

3301 South Justine St Chicago, Illinois 60608 Phone 800.621.0872 Phone 773.247.9060 Fax 773,247,7236

ISO/TS 16949

# **Certificate of Analysis**

# MATERIAL ACCEPTED

VOSS PO/LOT TRACE 944929 A

DATE

CLEVELAND, OH 4411 INSPECTED

12/06/13 Date: Customer PO No: 944929-1 ~ Customer Part No: 10CAAA0400625DR3 0221818 SSC Order No:

Description Of Material

301 ANN .040 X 0.6250 X COIL

### Chemical Properties (%)

.2300

.3000

### Physical Properties

17.2400

_		Yield (psi)	% Elongation	% Red Area	Hardness	Grain	R-Vai	N-Val
Heat Number	Tensile (psi)	ricia (pai)	/ /					0.000
980136 🗸	120000	47400	62.000	0.000	RB81	0.000	0.000	0.000

Remark: AMS 5901-92 REV. C/VS 902007 REV D BEND TEST 180 1XT #3 SLIT EDGE.

DFARS COMPLIANT

7.0600

Alfredo Rosario

Quality Assurance Manager

We hereby assert that the above data is a true reproduction of that furnished by our source of supply as contained in the records of the corporation.

Revision #3 Revision Date 02/10 Document #: CF01

Tag #45578

### NOTICE OF SHIPMENT/ PACKING LIST



45578-00 ANGELILIS
CERTIFICATE OF TEST

		* Altegheny Technologis		•	
QUET, ORDER NO. & DATE 26977	39/24/12 844545	VANDERGRIFT, PA	.   598112   1367	<b>29</b> % <b>7212</b> 0609 <b>3</b> 5°	892-821 11/82/12
SOLD SOLD TO SOLD TO	l P	RIME SEC.	ISHII	ie vandergrift FITG	PA 559982
STAINLESS SALES CO 3301 S. JUSTINE ST		DSG DSO 521	STAINLESS SALI 2310 W 58TH S	ES CORPORATION	
CHICAGO	IL 49409	U.L.	CHICAGO	IL 605	-36
				•	
		•	:	,	
GRADE AND SPECIFI "ATI 301" STAINLESS S (ASTM-A-240-12)		(LS ANMEALED 28	CARRIER - 068 FIN MILL EDGE (A		:-SA-240 ED 2016)
STEM FOS DIMENSIONS W	/G/L H	EAT # COIL #	TEST # G	ROSE TARE NET	THEO TAG #/ CD SKID
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DISTE EMAIC	INVOICE AND S/N	IO TWADTETWOGSTH	INCESSSALES. CUI		
TYPE HEAT/TEST HEAT 980136 TEST LOCATION	,		SI CRy NI 4/ 17.24 7.26 NI MI		
	YIELD TENSIL	E % ELONG	•	· GR	ain
1TEM TEST NO 2015 8778584	PSI * / PSI	/ IN 2" % R/A	HARDNESS BEND 69.HR30TW T PA	= :	IZE HARDSHABILITY R NR
	T 47489. 12000		69.HR30TW		DIC O PINAR
TEST LOCATION	TC TC * Y.S. BY 0.2% 0	TC FFSET METHOD .	TC TC		MEREINEU
NR = DATA NOT R FRADE VERIFICATION W		CTROSCOPICALLY			NOW 0 5) 2012
DIN EN 19204:2005 -	3.1 CERTIFICATE DO	ES NOT INDICATE	PED APPROVAL FOI	R THIS MATERIAL	STAINLESS SALES CORP.
AVERIAL MELTED AND SECTION 252.225-7008		ED STATES AND CO	OMPLIES WITH DFA	RE JAHUARY 2010	EDITION,
. FASE 81 - CONTINUED		भा			11/02/12 10:33:55
CONTROLES - Printe Note - Tale consignment was turner with in that class condition, in any caractly leaded, at w professionability for loss of demans in subgreat caused. Controls aleast complex bibliomers at it proves. If any ch		de product have been . Les Schen d'en geest. For est additional digestiment ets verifiers de libertiment ets services de libertiment ets services de libertiment ets services de libertiment de libertime	dorantico-escurité de ce produit cet de rpé des echate, Pour chandr des accemplate ces es comérce entrant 724-225-6251, Albert	contons to the m	neapy of data on the. The restorted and test resists also expliced and specification(s) so set footh is the Order Acknowledgement.

#### NOTICE OF SHIPMENT/ PACKING LIST



**CERTIFICATE OF TEST** 

AL 8168-4 121

VANDERCRIPT PA 558112 1262876292000 36289231 TITE VANDERGRIFT FRIME SEC. SHIP TO STAINLESS SALES CORF DSO DSC STAINLESS SALES CORPORATION 3301 S. JUSTINE STREET 521 2310 W 56TH STREET CHICAGO IL 60635 CHICAGO IL 40403

GRADE AND SPECIFICATIONS CARRIER - GROSS, RONALD, INC.
"ATI 301" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIM MILL EDGE (AMS 5901C) (ASME-SA-240 ED 2010)
(ASTM-A-240-12)

THIS DIM EN 10204:2005 - 3.1 CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE OND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATI AL HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE 190-9001, AS9100, NADCAP, AND ISO/IEC 17025. MATERIAL MAS MANUFACTURED IN ACCORDANCE WITH THE OTE AL QUALITY MANUAL REVISION 20 DATED 82/24/2012.

ATT ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:

O, S BY COMBUSTION/INFRARED

A, O, H BY IMERT FUSION/THERMAL COMBUCTIVITY

AND, P, SI, CR, MI, MO, CU, CB, CO, V BY WDXRF

B BY GES

WL AMD TI (>=0.10%) BY WDXRF, OTHERWISE BY GES

PB, BI, AG BY GFAA

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:

AT = ATT-ALLEGHENY LUDLUM; 950 TENTH STREET; MIDLAND, PA 15059

TO = ATT-ALLEGHENY LUDLUM; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065

<<<<<<< FOR ACCESS TO CHLIME CERTIFICATES OF TEST >>>>>>>
<<<<<<<< REGISTER AT WWW.ALCEXTRA.COM >>>>>>>>

PAGE 02 - FINAL PAGE.

REPRINT

11/02/12 10:33:55

CONSIGNEE.—Please Hote—This noneignment was turned over to garlin to first class condition, being correctly lounded, at which size of responsibility for these or devises in abdigment cased. For your private flost please examins shipment as it arrives. If any shortage or distings is discovered, bere a full description needs by transportation sport on very-M before alphing. Methodal Safety Onto Shunto for this product have been applied to your Purchasing Department. For an additional copy prices 20-22-25-25s. CAUTION: Processing the draines hasse, Case, or solutions convenies long disease. See Material Salest Data Sharit to front information.

Les l'abe. d'information—sécurité de se produit ont dis temples à voire département charpé des métals. Pour elebante des exemplates emplémentaires voirlies héliphones se cambio subset 754-725-7358. Attention: les trateguages entraîtent le production de vapours, poussieures, en sobiliton peuveni, être course de métalles puisonatières. Pour plus de rentelighesteuite se référer que fiches d'information-écertifs.

The above is a true copy of date on the. The metadot and had purconform to the sales contract and specification(s) as set forth Albertony Latitum's Order Acknowledgement.

September 904



HTG - HITECH AERO DIVISION 34800 Lakeland Bivd. Eastlake, Ohio 44095 440-946-2280 - Fax: 440-946-2283

HTG SHIP DATE

### PROCESS CERTIFICATION

CUSTOMER NAME:

**VOSS INDUSTRIES** 

**CUST ID** 

VOSIN

HTG JOB NO

14/039

1/13/14

SALES ORDER

S83345

945472, 945478

**CUST ORDER#** PART NUMBER

: /FT3JF-225A, VRD1046

DESCRIPTION

T-BOLTS

QUANTITY

12698, 22798

PROCESS SPECIFICATION(S)

VS901012 Revision C

**PROCESS** 

**TEMPERATURE** 

TIME

COOL

AGE HARDEN (VACUUM)

1325°F (±25°F)

16 HOURS (+60/-0 MINUTES)

ARGON COOL<250°F

**ATMOSPHERE** 

100 MICRONS MAX.

BASE METAL

A-286

35-41 HRC

HARDNESS SCALE

REQUIRED HARDNESS

HRC

**ACTUAL HARDNESS** 

**38 HRC** 

NUMBER PIECES CHECKED

MATERIAL ACCEPTED

VOSS PO/LOT TRACE 545 473

INSPECTED

This is to certify that this order was processed in accordance with the specifications referenced above, the purchase order requirements and the applicable drawings.

> PAUL VONLEHMDEN, PLANT MANAGER -OR-ENRIQUE CRUZ, QUALITY MANAGER

ITTP: control tomaton	Ci. ton Chec	la e da fete	North Color	1116-476-47
Date: 6/20/14	Customer: VOSS		Voss Order Number: 734	504
Procedure Number: P1-23-01	Customer Order Number:		Vosa Part Number: TA3L	-62-56
Card Number: INTERNAL	Customer Part Number:		Order Quantity: 15000	
Parchalo sanco				
Part Name: TRUNNION	Material Type: 301		Drawing No: TA3	Rev_A 000
Lot Size: 2265	In-process	Final [	2	
Specification and Revision: ASTM-E1	417/E1417M-11			
Accept/Reject Criteria (Latest Specific VS904010 REV B .015 MAX ROUN	ation Revision and or Drawing t DED / NO LINEAR OR THRO	Note & Revision): DUGH INDICATIONS		
Penetrum and a file				
Penetrant Brand: ZL-60D ZYGLO	MAG Developer Bra	nd; ZP-4B ZYGLO MA	G Developer C	ntegory:_8
Type: 28 I II I O III	Method: □ A		Level: ol p	203 04
Penetrant Dwell Time: 10 MIN.	Developer Dw	ell Time: 10 MIN/2 HRS	MAX Drying Time	10 MIN.
No or Source of the		· · · · · · · · · · · · · · · · · · ·	ms. in the ac-	
Blacklight (µw/cm²):	310	Blacklight Vw/cm² at 15 <sup>H</sup> foot	White Light i-candles at 15" 2850	
White Light - Ambient (foot-candles):	0.0	White Light - Ambien	t (foot-candles):	0.1
		White Light - Visible	Inspection (foot-candles):_	>199.9
		13	) - 9	
No. Lot about a	2161	1 1, 1, 6,1	Return To Production:	
Riuse Water Pressure: 39 PSI	Accepted: 214/		Scrap: 74	17
Rinse Water Temperature: 70° F	Rejected: 74		Scrap: / 1	
Drying Temperature: 134° F	NCT#: <u><b>9987</b></u>		Rework:	
	C 611	positiv		
,				
	\$18.00±100		~1	# P
Name M3 DAM	Level	2	277	
Source Inspector:			(80	<i>y</i>
Domest and	***************************************			

Date: 3/11/14 Procedure Number: PI-23-01 Card Number: 0636  Part Name: EYEBOLT CLIP Lot Size: 44.8	Customer: VOSS Customer Order Number: Customer Part Number:  Material Type: NICKEL ALI		Voss Order Number: 733322  Voss Part Number: VS2850-500  Order Quantity: 975  Drawing No: V82850 Rev -
Specification and Revision: ASTM-E1 Accept/Reject Criteria (Latest Specifica MIL-STD-1907 NOTICE 4 TABLE I GI	ition Revision and or Drawing	•	
Penstrent Brand: ZL-80D ZYGLO MAG		and: ZP-4B ZYGLO MA	
Type: et l a ll a ll!  Penetrant Dwell Time: 10 MIN.		o Bo Co D ell Time: 10 MIN.	Level: 01 d 2 0 3 0 4  Drying Time: 10 MIN.
Blacklight (	0.0	Blacklight V	
Section Products	N. 32 A.	beech	Disposition
Rinse Water Pressure: 38 PSI  Rinse Water Temperature: 88° F  Drying Temperature: 140° F		8	Return To Production: 468  Scrap: O  Rework:
<u>.</u>	1. S. 1. A.	r.c.ds	
	hisporter		50a ji 5
Name	Lovel	2	<b>E</b>



INVOICE NUMBER

**JHFZXS** 

PAGE 4 OF 4

50 th 19:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

#### SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

							<del></del>	CHIPPING TERMS
ORDER NO		DATE	SHIP VIA		}	TERMS		SHIPPING TERMS
P0038	3920	01/31/18	FEDX INTL E			NET 30		FOB-MIAMI
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	1	ACCT# 15179324-0						
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INVOI	CE#:	JHFZXS		1	<b>^</b>			
ORDER	 !# :	B88WP3			•		ATTO TO TO TO	107 14
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CONSO	LIDATE# .:	1H1VWJ					HANDLING DISC/ALI	2007 12000000°
		: 1997931 1107 1107 1107 1107 1107					INCM FRI	.43000000s.
							FREIGHT	0.00
							TOTAL	127.14USD
								U.S. CURRENCY
ckc	B88WP3	SHIPPED ON 01/31/1	18					
		MATERIAL TO BE R	RETURNED MUST H	AVE PRIOR A	UTHO	RIZATION BY KI	LX INC.	

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 N W 15TH TERRACE, MIAMI, FL 33172

MATERIAL CERTIFICATION: KLX INC. ("KLX AEROSPACE SOLUTIONS") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. KLX AEROSPACE SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF KLX AEROSPACE SOLUTIONS IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT WARRANTIES OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL OF ANY ITEM WHICH IS REJECTED CONSTITUTE SATISFACTION OF ALL LIABILITY KLX AEROSPACE SOLUTIONS MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL KLX AEROSPACE SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENT DAMAGES. FURTHER, KLX AEROSPACE SOLUTIONS MUST BE NOTIFIED OF A REJECTION OF AN JTEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

PACKING SLIP



Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York

ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

SEND TO ACCOUNTING Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXaerospace.com

CONSOLIDATION 1H1VWJ

PAGE

**SOLD TO:**\_\_ 002409

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

#### SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

ORDER N	0.	DATE	SHIP VIA			TERMS		SHIPPING TERMS		
	Below	01/31/2018	FEDX INT	TL P1 COLL		NET 30		FOI	B-MIAMI	
TEM 10.	QUANTITY	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	<b>!</b>	AMOUNT	
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ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.



INVOICE NUMBER

JHFZXS

PAGE 1 OF 3

50kg 19:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

#### SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

ORDER NO			0	ATE	SHIP VIA				TERMS			SHIPE	PING TERMS
PO03	8920			01/31/18	FEDX	INTL	P1 COLL		NET 30			FOB	-MIAMI
ITEM NO.	QUANTITY	PA	RT NUMB	ER AND DESCRIPTION			PRICE	UNIT	BACK ORDER		SHIPPED		AMOUNT
1		0 M	S2191	9WDG19			1.550	EA		0	2	20	31.00
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				F: MS24523-2	27								
			* * CU	ST PN: MS245	23-27								·
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			ECCN	:EAR99									
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			SCHE	DULE B: 3926	5.90.99	87					_	++001	 NTINUED***
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				MATERIAL TO BE	RETURNI	ED MUST	HAVE PRIOR	AUTH	ORIZATION	BAK	LX INC.		

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.



INVOICE NUMBER

JHFZXS

PAGE 2 OF 3

50kg 19:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

#### SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

ORDER NO	o.	DATE	SHIP VIA		1	TERMS	13	SHIPPING TERMS
PO03	8920	01/31/1	8 FEDX INTL	P1 COLL	Ì	NET 30	1	FOB-MIAMI
EM	QUANTITY ORDERED	PART NUMBER AND DESCRIPTIO	N	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
4	40	MFR: R&B ELECTR CTRL# : 2017C0 LOT# : 007514 LOT QTY: 6 **REF: MS3373-A **CUST PN: MS33 AN310C5 NUT AN310C5 ECCN :EAR99 Country Origin: TARIFF: 7318.16 SCHEDULE B: 731 MFR: GREER STOF CTRL# : 2017F0 LOT# : J00004 LOT QTY: 40 **REF: AN310C5 **CUST PN: AN31 Number: E135  These items are and authorized of ultimate des or end-user(s) They may not be to any other coauthorized ultimate desirate in their into other item U.S. government	USA .0085 8.16.0000 NUT/SPS 6588 7024-0000 .0C5 controlled for export of tination for herein ident export of the resold, transport of the consignation of the consistency of the consisten	nly to the use by th ified. nsferred, any person ee or end- rm or afte irst obtai	. Go	overnment untry of ltimate con otherwise d her than th r(s), eing incorp g approval	isposed of corated from the	
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INVOICE NUMBER

JHFZXS

PAGE 3 OF 3



**50**40, 79:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

#### SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

	NTITY PA	01/31/18 RT NUMBER AND DESCRIPTION	FEDX INTL 1			NET 30	ਜ਼ੀ	OR-MTAMT	
	DERED					1121 30	1-	OB-MIAMI	
		~		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT	
# F T D	** SHIPPE 1=CTN REIGHT AC EL# 613-6 IMENSIONS	: 9X9X8	ion TD .36 Kg 42780	5187040	UNIT	BACK ORDER	SUBTOTAL HANDLING DISC/ALL INCM FRT FREIGHT TOTAL	127.14 0.00 0.00	
form #1	6007.00030	03 **CONSOLIDA	TION# 1H1VWJ					U.S. CORRENC.	
		MATERIAL TO BE			<u> </u>	ODUTATION DY	LI VINC		

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.





INVOICE NUMBER

JHFZXS

PAGE 1 OF 3

CHIDDING TERMS

**5040 19**:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

#### SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

ORDER NO	D.			DATE	SHIP VIA			TERMS SHIPPING TERMS					NG TERMS
PO03				01/31/18	FEDX	INTL E	1 COLL		NET 30			FOB-	-MIAMI
ITEM	QUANTITY		PART NUI	MBER AND DESCRIPTION	<u> </u>		PRICE	UNIT	BACK ORDER		SHIPPED	1	MOUNT
NO. 1	ONDERED	20	CLAN 1-3, ECCI Cou	/16 LOOP CLAMP N :9A991.d ntry Origin: U	SA	, ALUN	1.550			0 W/1	3LUE IDE		31.00
2		2	SCHI MFR CTR: LOT: LOT: MS24	IFF: 7616.99.5 EDULE B: 7616. : UMPCO L# : 2017K065 # : UMP12129 QTY: 20 523-27	99.519 68	5	15.030	) EA	<b>.</b>	0		2	30.06
			ECC Cou TAR SCH MFR CTR LOT LOT	4523-27 N:9A991.d ntry Origin: U IFF: 8536.50.9 EDULE B: 8536. : HONEYWELL SE L#: 2017H294 #: 1702 QTY: 2 EF: MS24523-23	9065 50.906 ENSING 663	55							
3		6	MS33 STR MS3 ECC Cou	UST PN: MS2452 73-A1 EIP 373-A1 STRIP N EN :EAR99 Entry Origin: U EIFF: 3926.90.9	MOUNTII JSA 9995		3.08 (FOR TER			0 ) E		6 R	18.48
			Joch									*CON	TINUED***
				MATERIAL TO BE	RETURNE	D MUST	HAVE PRIOR	AUTH	IORIZATION E	зү к	LX INC.		
1				MAILINAL 10 DE 1									•

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.



INVOICE NUMBER

**JHFZXS** 

PAGE 2 OF 3

SOLD JQ:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

#### SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

ORDER NO.	DATE		SHIP VIA				TERMS		SHIPPING TER	IMS
PO038920		01/31/18	FEDX	INTL	P1 COLL		NET 30		FOB-MIA	MI
ITEM QUANTITY	PART NUMBER	AND DESCRIPTION	<u> </u>		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUN	T
A 40	MFR: RECTRL# LOT# LOT QTY **REF: **CUST AN310C5 NUT AN310C1 ECCN: COUNTRY TARIFF SCHEDU MFR: G: CTRL# LOT QT **REF: **CUST Number: These and au of ult	EB ELECTRON: : 2017C0509 : 0075143-0 (: 6  MS3373-A1 PN: MS3373  EAR99 Y Origin: US : 7318.16.0 LE B: 7318. REER STOP N : 2017F065 : J0000470 Y: 40 AN310C5 PN: AN310C E135  items are c thorized fo imate desti -user(s) he	59 001B -A1 SA 085 16.000 UT/SPS 88 24-000	lled ort o n for ident	nly to the use by the ified.	. <i>Go</i>	overnment			47.60
	to any author	other coun ized ultima in their o	try on te con prigin	r to nsign al fo	any person ee or end- rm or afte	ot. use. r b	her than th r(s), eing incorp	e orated		
	into o	ther items,	with	out f	irst obtai	nin,	g approval	from the	*CONTIN	UED***
	M.	ATERIAL TO BE R	ETURNE	D MUS	T HAVE PRIOR A	UTH	ORIZATION BY K	LX INC.		

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.



INVOICE NUMBER
JHFZXS

PAGE 1 OF 3

SOLD TO:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

#### SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

RDER NO. DATE SHIP VIA					-	1	ERMS			SHIPPI	NG TERMS
PO038920		01/31/18	FEDX I	NTL P	1 COLL	1	NET 30			FOB-	MIAMI
EM QUANTITY	PART NU	MBER AND DESCRIPTION	J.,				BACK ORDER		SHIPPED		MOUNT
O. ORDERED  1 20	CLAI 1-3 ECCI Cou: TAR SCH: MFR CTR LOT LOT SWI MS24 SWI MS24 SWI TAR SCH MFR CTR	/16 LOOP CLAMP N:9A991.d ntry Origin: U IFF: 7616.99.5 EDULE B: 7616. : UMPCO L# : 2017K065 # : UMP12129 QTY: 20 523-27 TCH 4523-27 TCH 4523-27 TCH 4523-27 IN:9A991.d Intry Origin: U IFF: 8536.50.9 IEDULE B: 8536.8	SA 190 99.5195 68 2 2 USA 9065 50.9065 ENSING		1.550 (COLOR C	ODE		0		2 2	31.00
3	LOT  **R  **C  6 MS33  STR  MS3  ECC  COU  TAR	•	23-27 MOUNTING USA 9995		3.080			0 D			18.48 TINUED***

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.



INVOICE NUMBER
JHFZXS

PAGE 3 OF 3



50kg 19:09

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

#### SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY, ON CANADA K6A 1K7

ORDER NO.		T	DATE	SHIP VIA				TERMS		SHIPPING TERMS		
PO038920	)		01/31/18	FEDX	INTL	P1 COLL		NET 30		FOB	-MIAMI	
ITEM QUAI	NTITY P	ART NUM	BER AND DESCRIPTION	1		PRICE	UNIT	BACK ORDER	SHIPPED		AMOUNT	
* #FT T	EL# 613-	Ulti DART 1270 HAWK ON K6A CANA ED 1 3. CCT# 632-3 S: 9}	CTN *** 00 Lb / 1. 15179324-0	ion D 36 Kg	4278				SUBTOTA HANDLIN DISC/AL INCM FF FREIGHT TOTAL	IG : LL : RT :	-	.27.14 0.00 0.00 0.00 0.00 0.00 .27.14USI
			MATERIAL TO BE F	RETURNI	ED MUS	T HAVE PRIOR	AUTH	IORIZATION BY	KLX INC.			

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.





R&B ELECTRONICS, INC. ®

ISO 9001: 2008 AS 9100C : 2009-01

R&B Electronics Corporate Office 1520 Industrial Park Drive Sault Ste. Marie, MI. 49783 Phone: (906) 632-1542 Fax: (906) 632-8105



10000176 QM08 10000176 ASH09



ISO 9001:2008 AS 9100C: 2009-01

**R&B** Electronics 2374 N.W. Dallas Street Grand Prairie, TX 75050 Phone: (972) 606-9933 (972) 606-0074

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	D	ACKING	5	Т	
		MOMIN	_		
•	,				
					٠.

096699

	Special Instructions	
	Cert Enclosed Partial Ship 🛛 C	omplete Ship
	Goods Received in Good Condi	tion
Ву:		
Date	e:	· · ·

SOLD TO: KLX INC

10000 NW 15TH TERRACE

MIAMI FL 33172

Phone: 800-533-5155 Fax: 305-507-7192

SHIP TO:

KLX AEROSPACE SOLUTIONS

KLX INC

9835 NW 14TH ST

MIAMI FL 33172 Phone: 305-592-5155 Fax: 305-507-7192

Sales Order	Ship Num Cust No	Order Date Ta	x Promised	Sales Rep Customer P.O. Number Mark Shipment
0075143	0000 MAN001	1/27/2017 E	2/10/2017	CYNTHIA GARDNER 003S022/880CG TBD
	F.O.B. Point	Ship Date	Shipped Via	Cartons Weight Tracking Number In
	OUR DOCK	2/22/2017	UPS DEST	

			QUANTITY			Part Number/Revision	Description		
	T	Order	B/O	Ship	Unit				
	S	3,901		3,901	EA	MS3373-A1 C	SPECIAL PRICING 7/18/16 PROMISED: 2/10/17		
							5		

PARTS MANUFACTURED BY R & B ELECTRONICS, INC. - COUNTRY OF ORIGIN IS USA

## Shipment Packing Slip Report

5/19/2017 4:27:45 PM

GREER STOP NUT

SPS 481 McNafly DRIVE • NASHVILLE IN 37211

Precinologies

From Warehouse:

MAIN

Page:

Shipment:

58114

From:

GREER STOP NUT
481 McNALLY DRIVE
NASHVILLE TN 37211
UNITED STATES
615-832-8375

THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS

Bill To:

427568

Ship To:

(1)

KLX INC. 10000 NW 15TH TERRACE MIAMI FL 33172-2756 KLX INC. 9835 NW 14TH ST. MIAMI FL 33172 UNITED STATES

UNITED STATES

Order Contact:

Pickup Dat	Order	A. Care	Cust PO	Ship Via.	100 ES	Carrier (***	, Weight	Packages
5/19/2017	CJ000	17802	005BP54	TTRK		:	236.25	9
Due Date	Requ	ate	Terms *	Ship Carl	γ.	Partial Qty	Tracking (R)	RO <sub>E</sub>
06/06/2017	02/07/	2017	N35	Not Befor	e	No Partials		
Order Li	ne/Release	Item			U/M	[ Quantity	Package ID	
CJ00017802	1-0 Description:	503320 AN310C5			EA	507.00	10,217	
	•	AN310C5 J000013474	1-0000		Rev: 1			
CJ00017802	1-0 Description:	503320 AN310C5			EA	534.00	10,217	
		AN310C5 J000042996			Rev: 1			
CJ00017802	1-0 Description:	503320 AN310C5			EA	25,209.00	10,217	
	•	AN310C5 J000047024			Rev: 1			

JK

SPS TECHNOLOGIES LLC

Page 1 of 2

lchancellor

CR-040 Rev. NC

## Shipment Packing Slip Report

5/19/2017 4:27:45 PM

GREER STOP NUT
5P\$ 481 McNALLY DRIVE\* NASHVILLE IN 37211
TECHNOLOGIES

From Warehouse:

MAIN

Page:

\_\_\_

Shipment:

58114

From:

GREER STOP NUT 481 McNALLY DRIVE NASHVILLE TN 37211 UNITED STATES 615-832-8375 THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHER WISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHER WISE AUTHORIZED BY U.S. LAW AND REGULATIONS

under 150 Lbs ship Fed Ex Ground acct 0331-0149-0 - Mark COLLECT if over 150 lbs ship Fed Ex Freight Economy acct 300 176

JK

SPS TECHNOLOGIES LLC

Page 2 of 2

-Ichanceller

CR-040 Rev. NC



SOLD

# UMPCO, INC.

**Customer NO.** KLX001-

MANUFACTURE OF CLAMPS, CLIPS & BRACKETS
7100 LAMPSON AVENUE P.O. BOX 5158 GARDEN GROVE, CA 92846-5158 714-897-3531 WWW.UMPCO.COM

Sales Order NO. 439845



ASN

SHIPPING DEST CODE MIAM

KLX INC

S/C

N

SHIP 9835 NW 14th ST ΤÓ

MIAMI, FL 33172

KLX INC 10000 NW 15TH TERRACE TO MIAMI, FL 33172

CLAIMS FOR ERRORS AND ALL DEDUCTIONS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF INVOICE 1 1/2% SVC. PER MO. CHARGED ON ALL PAST DUE AMOUNTS SHIPPING DATE

TERMS F.O.B. SHIP VIA ORDER DATE NOV 0 1 2017 RECIPIENT 1/2 % 10 NET 30 **FEDEX GROUND** 08/16/17 BILL OF LADING NUMBER SALECT PURCHASE ORDER NUMBER ORDER DATE CONTACT 08/16/17 0072S66 DESCRIPTION ITEM ON ORDER QUAN.SHIPPED QUAN. BO 1 - 100 4# 11 N 5000 5000 MS21919WDG19 7 - 700 182# REV E 190727 191775 191804 191656 Lot#: UMP121292 3Q17 Qtv: 1400 IR Nur 190727 191790 191804 191656 IR Nun 3Q17 Qty: 3500 Lot#: UMP121661 190727 191790 191804 191656 IR Nun Qty: 100 Lot#: UMP121661 3Q17 S/C FULL\_TEST\_RPTS 11/ 2 PBC 1 05/16/18 Ν MS21919WDG19 3 5000 0 **REVE** 

> RR 85% SHELF LIFE REQUIRED SC NOTE: UNDER 150 # SHIP FED X GROUND. IF OVER 150 # SHIP FED EX FREIGHT ECONOMY

**FULL TEST RPTS** 

Page 1

1

TOTAL CARTONS FEDEX GROUND

8 033101490 TOTAL WEIGHT

186

Printed: 10/25/17 09:37:45

CUSTOMER NO.

05/16/18

SALES ORDER NO.



PURCHASE ORDER NUMBER

A WRITTEN RETURN MATERIAL AUTHORIZATION FORM (RMA)MUST BE OBTAINED FROM UMPCO BEFORE RETURNING ANY MATERIALS FOR CREDIT OR REPLACEMENT. UMPCO certifies that parts shipped on above documents conforms in all respects to applicable specifications and/or standards. Complete physical and chemical test reports as required are on file and available for review "WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ACC APPLICABLE RE-QUIREMENTS OF SECTION 6, 7 & 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND DE REGULA-TIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER BECTION 14 THEREO Processing product testing and inspection control of raw material shall be in conformance with all applicable specifications, drawings and/or standards. Products are produced in a mercury free environment. "When applicable, materials are compliant to DFARS 252.225-7009."

UMPCO, INC. 7100 Lampson Ave. Garden Grove, CA 92841

orized Signature Final Inspector

DELIVERY RECEIPT NO. 439845